

General Certification Assessment Checklist

for
Dry Ponds, Wet Ponds, Constructed Wetlands, and Pocket Wetlands

Date of Certification Assessment: _____

Assessing and Certifying PE: _____ Seal: _____

BCE #: _____

BMP Facility Name: _____

Access Address: _____

PIN/s of Parcel/s on Which the Facility is Sited: _____

BMP and Access Easement Information: DB _____ PG _____; PB _____ PG _____

Height of Dam: _____

Class of Dam: _____

Impoundment Volume (at Top of Dam): _____

CHECKLIST

CDs: Approved Construction Drawings

NC: Non-compliant with the Approved CDs and/or City of Durham Requirements and Policies. Note: An "NC" should only be circled if the element in question is non-compliant.

y: Yes

n: No

N/A: Not Applicable. If an element is not applicable, please write "N/A" next to the element.

I. Open Space -- 1 Point

- The BMP is located entirely on open space property (residential areas only) [y or n] _____. Note: Inlets and access ways shall not apply to this restriction. NC

II. Easements -- 1 Point

- The constructed BMP facility is located entirely in a recorded BMP easement _____. NC
- The constructed access way is located entirely in a 20-ft wide recorded access easement _____. NC

III. Accessibility -- 1 Point

- A drivable access way to the top of the dam has been provided from a road or parking lot _____. NC
- At its narrowest point, the access width is _____. NC
- At its steepest point, the centerline grade of the access is _____. NC
- At its steepest pitch, the pitch or cross-slope of the access is _____. NC
- Unless it has been surfaced with gravel, asphalt, concrete, etc., 85% of the access way has achieved a healthy stand of grass, and all remaining areas have been seeded and mulched _____. NC
- An access hatch and steps down the inside of the riser have been provided _____. NC.

IV. Dam Embankment -- 3 Points

- The narrowest top of dam width is _____. NC
- The steepest slope on the upstream face of the dam is _____. NC
- The steepest slope on the downstream face of the dam is _____. NC
- Based on manual rod probings of the dam, particularly in the zones over and around the principal spillway pipe, the dam appears to have been well-compacted [y or n] _____. NC
- The dam and dam foundation, groin, toe, and abutment areas are completely free of trees, landscaping, and other woody growth _____. NC
- The dam has been fine graded and is free of ruts, erosion, etc. _____. NC
- 85% of the dam embankment and dam foundation, groin, toe, and abutment areas have achieved a healthy stand of grass, and all areas that have not achieved a healthy stand of grass have been seeded and mulched _____. NC

V. Emergency Spillway -- 2 Points

- The narrowest width of the control section (CS) is _____. NC
- The side slopes of the CS are [Left] _____ and [Right] _____. NC
- The size, shape, and alignment of the exit channel is in accordance with the CDs _____. NC

- Armoring has been installed in accordance with the CDs _____. NC
- The spillway has been fine graded and is free of ruts, erosion, etc. _____. NC
- Excluding the hard-surfaced armored area, 85% of the spillway has achieved a healthy stand of grass, and all remaining areas have been seeded and mulched _____. NC

VI. Riser Structure -- 2 Points

- The riser structure is reinforced concrete _____. NC
- The diameter or opening dimensions of the riser is/are _____. NC
- A top, peak-roofed trashrack has been provided and bolted down to the riser _____. NC
- An 8" plug valve with an accessible operating mechanism has been provided _____. NC
- A low-flow debris cage has been provided in accordance with the CDs _____. NC
- The riser structure and all appurtenant devices (plug valve, etc.) appear to be sound _____. NC
- For precast structures, the barrel sections were installed with gasketed joints, and adjacent riser barrel sections have been bolted together with steel strapping _____. NC
- All orifices, siphons, ports, and weirs were installed in accordance with the CDs _____. NC
- The anti-floatation ballast has been provided in accordance with the CDs _____. NC
- A placed concrete invert to the invert out of the principal spillway pipe has been provided _____. NC

VII. Principal Spillway Pipe -- 2 Points

- The principal spillway pipe (PSP) is reinforced concrete _____. NC
- The diameter of the PSP is _____. NC

- Based on a visual inspection, it appears that the joints of the PSP were “homed” reasonably well, and it appears that no joints are leaking _____. NC

VII. Outfall Structure -- 1 Point

- The outfall structure is a concrete endwall (w/ wingwalls if req'd) _____. NC
- Appropriate fall protection has been provided across the top of the structure _____. NC

VIII. Outfall Area -- 1 Point

- Appropriate riprap (w/ an underlying woven fabric) outlet protection has been provided _____. NC
- If required, a level spreader and/or stilling basin has been provided in accordance with the CDs and/or NCDENR _____. NC
- The outfall area appears stable, and all accumulated silt and debris has been removed _____. NC

IX. Impoundment Area -- 1 Point

- Riprap energy dissipaters and sediment basins have been installed at the inlets in accordance with the CDs _____. NC
- A forebay has been installed in accordance with the CDs _____. NC
- A forebay spillway has been installed in accordance with the CDs _____. NC
- The narrowest width of the safety bench is _____. NC
- The positioning of the safety bench is in accordance with the CDs _____. NC
- All accumulated sediment and other debris in the sediment basins, riprap energy dissipaters, forebay/s, and the pond floor has been removed _____. NC
- All inlet pipes have been installed with appropriate end-treatments in accordance with the CDs _____. NC
- 85% of the dry pond floor has achieved a healthy stand of vegetation, and all remaining areas have been seeded and mulched _____. NC
- The plantings required in the CDs have been installed _____. NC

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BCE's Score: _____

City of Durham's Score: _____

Scoring Notes: (1) A passing score shall be 14 out of 15; (2) If any item within a section is deemed NC, no points shall be awarded for that section; (3) If a BCE awards a score of anything less than 15 and submits an as-built and construction certification to the City anyway, the City will reject the entire submittal.